

FIGURE 1 Comparison of the Corn, Soybean (2), and Arabidopsis Sterol Delta-14 Reductases

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p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
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M-----MESHVDLGFLQLQALTPSWNSVPLLVG-----
M-----MESHVDLGFLQLQALTPSWNSVPLLVG-----
M-----MESHVDLGFLQLQALTPSWNSVPLLVG-----
M-----DLGVLLPSL-----QSVYVLVF-----

p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
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PRVR-----KNKVELSLLSGLANLC-
-----FFTYLAVAGSILPGKLVPGVALLDGTTRLHYCCNGLLSLLLVALLGIGA
-----FFTYLAVAGSILPGKLVPGVALLDGTTRLHYCCNGLLSLLLVALLGIGA
-----YFVYLAVAGEILPGKVIIRGVLSDGSQLRYRCNGLLALILLVAILGICA

p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
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KMGFVSPT-----AISDRGLELLSTTFAFSLVTLILHFSGCKSQSKGSS--LKPH-LSG
KMGFVSPT-----AISDRGLELLSTTFAFSLVTLILHFSGCKSQSKGSS--LKPH-LSG
KLGIVSPL-----VVADRGLELLSATFIFCVLVTALYVTGRSSSNKGSS--LKPH-VSG

p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
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NLIHDWFGIQLNPQFMG-IDLKFFF-VRAGMMGWLLINLSILMKSIQ-DGTLQSQMILY
NLIHDWFGIQLNPQFMG-IDLK-----AGMMGWLLINLSILMKSIQ-DGTLQSQMILY
NLVHDWFGIQLNPQFMS-IDLKFFF-VRAGMMGWLLINLSILAKSVQ-DGSLQSQMILY

p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
QLFCALYILDYFVHEEYMTSTWDIIAERLGFMLVFGDLVMTFPFSIQGWLLMNSVELT
QLFCALYILDYFVHEEYMTSTWDIIAERLGFMLVFGDLVMTFPFSIQGWLLMNSVELT
QIFCALYILDYFVHEEYMTSTWDIIAERLGFMLVFGDLVMTFPFSIQGWLLHNKVELT

p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
PAAIVANCFVFLIGYMFVARGANKQKHVFKKDPKAPINGKPKPKV-----GGKLLASGYWGIA
PAAIVANCFVFLIGYMFVARGANKQKHVFKKNPKAPINGKPKPKVI-----GGKLLASGYWGIA
PAAIVANCFVFLIGYMFVARGANKQKHVFKKNPKAPINGKPKPKVI-----GGKLLASGYWGIA
VPAIVVNCLVFLIGYMFVARGANKQKHIFKKNPKTPIWGKPKPKVV-----GGKLLVSGYWGIA

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FIGURE 1 (page 2 of 2)

p0097.cqrau67ra_fis.PRO RHCNYLGDLLLALSFSLSLPCGVSSVVPYFYPTYLLILLVLRRRDEARCSQKYREIWAEC
 src3c.pk009.c1_fis.PRO RHCNYLGDLMLALSFSLSLPCGISSPIPYFYPIYLLILLIWRRRDEARCAEKYREIWAEC
 ssm.pk0031.d12_fis.PRO RHCNYLGDLMLALSFSLSLPCGISSPIPYFYPIYLLILLIWRRTDEARCAEKYREIWAEC
 8917585_(Arabidopsis).PRO RHCNYLGDLMLALSFSLSLPCGISSVVPYFYPIYLLILLIWRRRDEVRCAEKYKEIWAEC

p0097.cqrau67ra_fis.PRO KLVPRILPYVY
 src3c.pk009.c1_fis.PRO KLVPRILPYVY
 ssm.pk0031.d12_fis.PRO KLVPRILPYVY
 8917585_(Arabidopsis).PRO RLVPRILPYVY